



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : William Stuart Somers et al Art Unit : 1645
Serial No. : 09/859,722 Examiner : Unknown
Filed : May 17, 2001
Title : CRYSTAL STRUCTURE OF P-SELECTIN, P- AND E-SELECTIN
COMPLEXES, AND USES THEREOF

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b) GENETICS INSTITUTE, LLC, certifies that it is the assignee of 100% of the right, title and interest in the patent application identified above by virtue of:

☒ Assignments from the inventors of the patent application identified above, to Genetics Institute, Inc. as indicated below. On January 1, 2002, Genetics Institute, Inc. was converted to a limited liability company and changed its name to Genetics Institute, LLC, said change was recorded in the United States Patent and Trademark Office at Reel 012772, Frame 0631 on March 29, 2002. Copies of the assignments are attached.

1. From William Stuart Somers and Jin Tang to Genetics Institute, Inc. recorded in the Patent and Trademark Office at Reel 012237, Frame 0480 on October 5, 2001.
2. From Raymond Camphausen to Genetics Institute, Inc. recorded in the Patent and Trademark Office at Reel 012238, Frame 0246 on October 5, 2001.
3. From Jasbir Seehra to Genetics Institute, Inc. recorded in the Patent and Trademark Office at Reel 012237, Frame 0494 on October 5, 2001.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

The undersigned, acting on behalf of the assignee, hereby revokes all powers of attorney previously granted in the application and appoints:

Applicant : William Stuart Somers et al
Serial No. : 09/859,722
Filed : May 17, 2001
Page : 2 of 2

Attorney's Docket No.: 16163-004001 / AM100225

Elizabeth M. Barnard, Reg. No. 31,088
Rebecca R. Barrett, Reg. No. 35,152
Christine P. Bellon, Reg. No. 41,611
Gavin T. Bogle*
Diana M. Collazo, Reg. No. 46,635
Sean P. Daley, Reg. No. 40,978
Harold H. Fox, Reg. No. 41,498
John J. Gagel, Reg. No. 33,499
John F. Hayden, Reg. No. 37,640
Elizabeth A. Hurley, Reg. No. 41,859
David A. Manspeizer, Reg. No. 37,540
Gale F. Matthews, Reg. No. 32,269

Arnold S. Milowsky, Reg. No. 35,288
Louis Myers, Reg. No. 35,965
Robert C. Nabinger, Reg. No. 33,431
Michael R. Nagy, Reg. No. 33,432
Tu N. Nguyen, Reg. No. 42,934
M. Andrea Ryan, Reg. No. 28,469
Leda I. Trivinos, Reg. No. 50,635
Albert R. Ubieta, Reg. No. 43,212
Wendy S. Vincente, Reg. No. 45,496
Darryl L. Webster, Reg. No. 34,276
Dorothy P. Whelan, Reg. No. 33,814

*Limited Recognition Under 37 C.F.R. § 10.9(b)

with full power of substitution and revocation, to prosecute the application and to transact all business in the United States Patent and Trademark Office connected therewith.

All correspondence regarding the application should be sent to:

PTO Customer Number: 26171

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

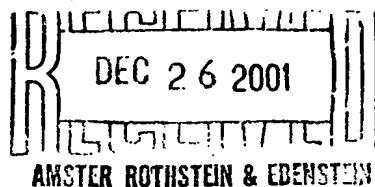
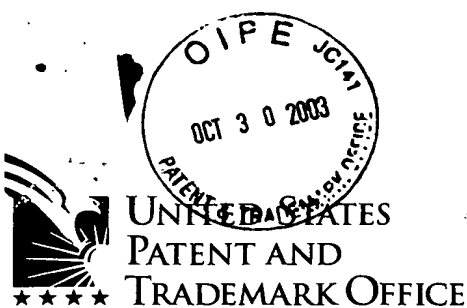
Respectfully submitted,

Date: 10/13/03

M. Andrea Ryan
M. ANDREA RYAN

Title: Assistant Secretary
On behalf of Genetics Institute, LLC

Fish & Richardson P.C.
1425 K Street, N.W.
11th Floor
Washington, DC 20005-3500
Telephone: (202) 783-5070
Facsimile: (202) 783-2331



DECEMBER 17, 2001

PTAS

AMSTER, ROTHSTEIN & EBENSTEIN
CRAIG J. ARNOLD, ESQ.
90 PARK AVENUE
NEW YORK, NY 10016

Under Secretary of Commerce For Intellectual Property and
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Washington, DC 20231
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RECORDATION DATE: 10/05/2001

REEL/FRAME: 012237/0480
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SOMERS, WILLIAM STUART

DOC DATE: 08/31/2001

ASSIGNOR:

TANG, JIN

DOC DATE: 08/15/2001

ASSIGNEE:

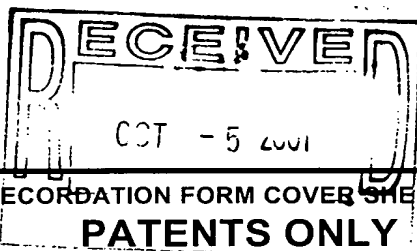
GENETICS INSTITUTE, INC.
87 CAMBRIDGE PARK DRIVE
CAMBRIDGE, MASSACHUSETTS 02140

SERIAL NUMBER: 09859722
PATENT NUMBER:

FILING DATE: 05/17/2001
ISSUE DATE:

SHAREILL COLES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

DOCKETED	12/28/01 PR
CLIENT	2368/24
DUE DATE	



10-16-2001



101873902

Form PTO-1595
(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

William Stuart Somers
Jin Tang

10.5.01

2. Name and address of receiving party(ies)

Name: **Genetics Institute, Inc.**

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Street Address: **87 Cambridge Park Drive**City: **Cambridge** State: **MA** Zip: **02140**Execution Date: **August 31, 2001; August 15, 2001**Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)
09/859,722

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **Craig J. Arnold, Esq.**Internal Address: **Amster, Rothstein & Ebenstein**Street Address: **90 Park Avenue**City: **New York** State: **NY** Zip: **10016**6. Total number of applications and patents involved: **1**7. Total fee (37 CFR 3.41).....\$ **40.00**

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number:

01-1785

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.***Craig J. Arnold, Reg. No. 34,287**

Name of Person Signing

Signature**October 2, 2001**

Date

Total number of pages including cover sheet, attachments, and documents: **5**Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

/15/2001 GT0N11 00000150 09859722

FC:581

40.00 OP

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNORS of good and valuable consideration, the receipt of which is hereby acknowledged,

ASSIGNORS:

(1) Full Name of Inventor: William Stuart Somers
Residence: 20 Mead Street - #2, Cambridge, MA 02140
Citizenship: UK

(2) Full Name of Inventor: Jin Tang
Residence: 308 Pleasant Street, Canton, MA 02021
Citizenship: US

(3) Full Name of Inventor: Raymond Camphausen
Residence: 65 Hillsdale Road, Arlington, MA 02476
Citizenship: US

(4) Full Name of Inventor: Jasbir Seehra
Residence: 139 Shade Street, Lexington, MA 02421
Citizenship: UK

hereby sell, assign, and transfer to ASSIGNEE:

Genetics Institute, Inc.
87 Cambridge Park Drive
Cambridge, MA 02140

and the successors, assigns, and legal representatives of the ASSIGNEE, the entire right, title, and interest for the United States and its territorial possessions, and in all foreign countries, including all rights to claim priority, in and to the invention entitled:

CRYSTAL STRUCTURES OF P- SELECTIN, P- AND E-SELECTIN
COMPLEXES, AND USES THEREOF

that was invented by ASSIGNORS, and which is found in U.S. application Serial No. 09/859,722, filed on May 17, 2001, and any legal equivalent thereof in a foreign country, including the right to claim priority, including any and all improvements disclosed therein, and in and to all Letters Patent to be obtained for said invention by the above application, or any continuation, division, renewal, or substitute thereof, and, as to Letters Patent, any reissue or re-examination thereof.

ASSIGNORS hereby covenant that no assignment, sale, agreement, or encumbrance has been, or will be, made or entered into which would conflict with this Assignment.


ASSIGNORS authorize ASSIGNEE to make applications for, and to receive, Letters Patent for said invention in any of said countries, in ASSIGNEE's name, or in ASSIGNORS' names, at ASSIGNEE's election.

ASSIGNORS covenant and agree to execute or procure any further necessary assurance of the title to said invention, and any Letters Patent which may issue therefor, and to, at any time, upon the request and at the expense of ASSIGNEE, deliver any testimony in any interference, litigation, or proceeding related thereto, and to execute all papers that may be necessary or desirable to perfect the title to said invention, or any Letters Patent which may be granted therefor in ASSIGNEE, its successors, assigns, or other legal representatives, and to, at any time, upon the request and at the expense of ASSIGNEE, execute any continuation, continuation-in-part, divisional, renewal, or substitute thereof, and, as to Letters Patent, and reissue or re-examination thereof, or any other additional applications for Letters Patent for said invention or any part thereof, all of which applications and any Letters Patent issuing

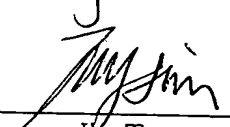
thereon are hereby assigned to ASSIGNEE, will make all rightful oaths or declarations, and do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns, or other legal representatives.

ASSIGNORS authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States for said invention, resulting from any of the aforesaid applications, to said Genetics Institute, Inc. as their ASSIGNEE.

WITNESS our hands and seals this 31st day of August, 2001.



William Stuart Somers



Jin Tang

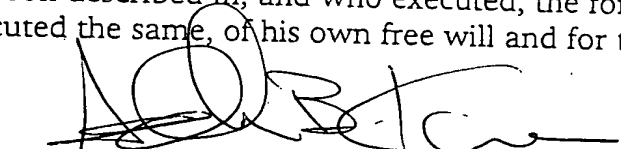
Raymond Camphausen

Jasbir Seehra

ACKNOWLEDGMENT

State of Massachusetts }
County of Middlesex } ss:

On the 31 day of August, 2001, William Stuart Somers personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.



Notary Public

ARADHANA B. KUMAR
Notary Public
My Commission Expires
April 25, 2008

State of Massachusetts }
County of Middlesex } ss:

On the 15th day of August, 2001, Jin Tang personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Sabiele M. Vogt
Notary Public

State of Massachusetts }
County of Middlesex } ss:
}

On the ____ day of _____, 2001, Raymond Camphausen personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Notary Public

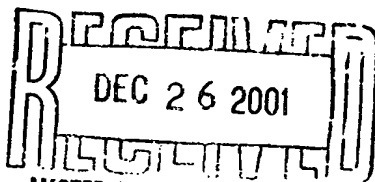
State of Massachusetts }
County of Middlesex } ss:

On the ____ day of _____, 2001, Jasbir Seehra personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Notary Public



UNITED STATES
PATENT AND
TRADEMARK OFFICE



AMSTER ROTHSTEIN & EBENSTEIN

DECEMBER 17, 2001

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AMSTER, ROTHSTEIN & EBENSTEIN
CARIG J. ARNOLD, ESQ.
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NEW YORK, NY 10016

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RECORDATION DATE: 10/05/2001

REEL/FRAME: 012238/0246
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CAMPHAUSEN, RAYMOND

DOC DATE: 08/30/2001

ASSIGNEE:

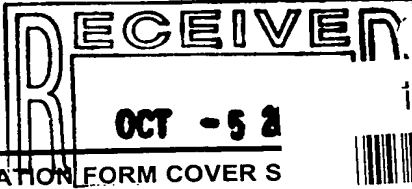
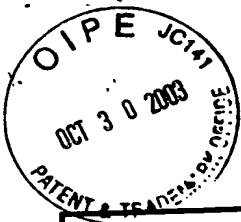
GENETICS INSTITUTE, INC.
87 CAMBRIDGE PARK DRIVE
CAMBRIDGE, MASSACHUSETTS 02140

SERIAL NUMBER: 09859722
PATENT NUMBER:

FILING DATE: 05/17/2001
ISSUE DATE:

PAULA MCCRAY, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

DOCKETED	12/28/01 AR
CLIENT	2368/24
DUE DATE	



10-16-2001



101873903

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OMB No. 0651-0027 (exp. 5/31/2002)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Raymond Camphausen

10-5-01

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: **August 30, 2001**

2. Name and address of receiving party(ies)

Name: **Genetics Institute, Inc.**

Internal Address: _____

Street Address: **87 Cambridge Park Drive**City: **Cambridge** State: **MA** Zip: **02140**Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)
09/859,722

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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Name: **Craig J. Arnold, Esq.**Internal Address: **Amster, Rothstein & Ebenstein**Street Address: **90 Park Avenue**City: **New York** State: **NY** Zip: **10016**6. Total number of applications and patents involved: **1**7. Total fee (37 CFR 3.41).....\$ **40.00**

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number:

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*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.***Craig J. Arnold, Reg. No. 34,287**

Name of Person Signing

Signature

October 2, 2001

Date

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10/15/2001 GTON11 00000149 09859722

01 FC:581

40.00 DP

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNORS of good and valuable consideration, the receipt of which is hereby acknowledged,

ASSIGNORS:

(1) Full Name of Inventor: William Stuart Somers
Residence: 20 Mead Street - #2, Cambridge, MA 02140
Citizenship: UK

(2) Full Name of Inventor: Jin Tang
Residence: 308 Pleasant Street, Canton, MA 02021
Citizenship: US

(3) Full Name of Inventor: Raymond Camphausen
Residence: 65 Hillsdale Road, Arlington, MA 02476
Citizenship: US

(4) Full Name of Inventor: Jasbir Seehra
Residence: 139 Shade Street, Lexington, MA 02421
Citizenship: UK

hereby sell, assign, and transfer to ASSIGNEE:

Genetics Institute, Inc.
87 Cambridge Park Drive
Cambridge, MA 02140

and the successors, assigns, and legal representatives of the ASSIGNEE, the entire right, title, and interest for the United States and its territorial possessions, and in all foreign countries, including all rights to claim priority, in and to the invention entitled:

CRYSTAL STRUCTURES OF P- SELECTIN, P- AND E-SELECTIN
COMPLEXES, AND USES THEREOF

that was invented by ASSIGNORS, and which is found in U.S. application Serial No. 09/859,722, filed on May 17, 2001, and any legal equivalent thereof in a foreign country, including the right to claim priority, including any and all improvements disclosed therein, and in and to all Letters Patent to be obtained for said invention by the above application, or any continuation, division, renewal, or substitute thereof, and, as to Letters Patent, any reissue or re-examination thereof.

ASSIGNORS hereby covenant that no assignment, sale, agreement, or encumbrance has been, or will be, made or entered into which would conflict with this Assignment.

ASSIGNORS authorize ASSIGNEE to make applications for, and to receive, Letters Patent for said invention in any of said countries, in ASSIGNEE's name, or in ASSIGNORS' names, at ASSIGNEE's election.

ASSIGNORS covenant and agree to execute or procure any further necessary assurance of the title to said invention, and any Letters Patent which may issue therefor, and to, at any time, upon the request and at the expense of ASSIGNEE, deliver any testimony in any interference, litigation, or proceeding related thereto, and to execute all papers that may be necessary or desirable to perfect the title to said invention, or any Letters Patent which may be granted therefor in ASSIGNEE, its successors, assigns, or other legal representatives, and to, at any time, upon the request and at the expense of ASSIGNEE, execute any continuation, continuation-in-part, divisional, renewal, or substitute thereof, and, as to Letters Patent, and reissue or re-examination thereof, or any other additional applications for Letters Patent for said invention or any part thereof, all of which applications and any Letters Patent issuing

thereon are hereby assigned to ASSIGNEE, will make all rightful oaths or declarations, and do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns, or other legal representatives.

ASSIGNORS authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States for said invention, resulting from any of the aforesaid applications, to said Genetics Institute, Inc. as their ASSIGNEE.

WITNESS our hands and seals this 30th day of August, 2001.

William Stuart Somers

Raymond Camphausen

Jim Tang

Jasbir Seehra

ACKNOWLEDGMENT

State of Massachusetts }
County of Middlesex } ss:

On the 30th day of August, 2001, William Stuart Somers personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

ARADHANA B. KUMAR
Notary Public
My Commission Expires
April 25, 2008
Notary Public

State of Massachusetts }
County of Middlesex } SS:

On the 15th day of August, 2001, Jin Tang personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Sabiele M. Vogt
Notary Public

State of Massachusetts }
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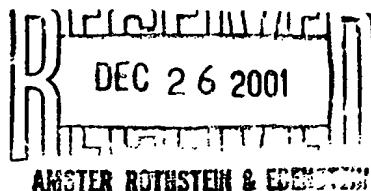
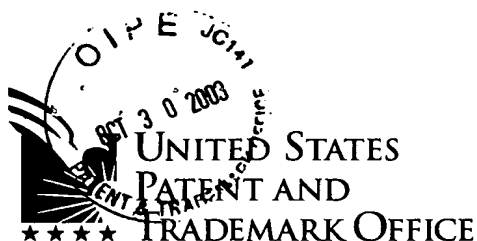
ARADHANA B. KUMAR
Notary Public
My Commission Expires
April 25, 2008

Notary Public

State of Massachusetts }
County of Middlesex } SS:

On the ____ day of _____, 2001, Jasbir Seehra personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Notary Public



DECEMBER 17, 2001

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Washington, DC 20231
www.uspto.gov

AMSTER, ROTHSTEIN ET AL
CRAIG J. ARNOLD
90 PARK AVENUE
NEW YORK, NY 10016



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ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/05/2001

REEL/FRAME: 012237/0494
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SEEHRA, JASBIR

DOC DATE: 08/31/2001

ASSIGNEE:

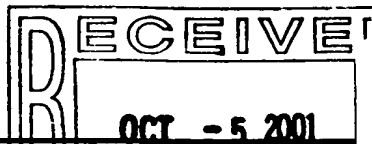
GENETICS INSTITUTE, INC.
87 CAMBRIDGE PARK DRIVE
CAMBRIDGE, MASSACHUSETTS 02140

SERIAL NUMBER: 09859722
PATENT NUMBER:

FILING DATE: 05/17/2001
ISSUE DATE:

STEVEN POST, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

DOCKETED	12/28/01
CLIENT	2368/24
DUE DATE	



10-16-2001



101873901

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(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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RECORDATION FORM COVER SHEET
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1. Name of conveying party(ies):

Jasbir Seehra

10-5-01

2. Name and address of receiving party(ies)

Name: Genetics Institute, Inc.

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other _____

Street Address: 87 Cambridge Park DriveCity: Cambridge State: MA Zip: 02140Execution Date: August 31, 2001Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)
09/859,722

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Craig J. Arnold, Esq.Internal Address: Amster, Rothstein & EbensteinStreet Address: 90 Park AvenueCity: New York State: NY Zip: 100166. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00☒ Enclosed☐ Authorized to be charged to deposit account

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Craig J. Arnold, Reg. No. 34,287

Name of Person Signing

Signature

October 2, 2001

Date

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ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNORS of good and valuable consideration, the receipt of which is hereby acknowledged,

ASSIGNORS:

(1) Full Name of Inventor: William Stuart Somers
Residence: 20 Mead Street - #2, Cambridge, MA 02140
Citizenship: UK

(2) Full Name of Inventor: Jin Tang
Residence: 308 Pleasant Street, Canton, MA 02021
Citizenship: US

(3) Full Name of Inventor: Raymond Camphausen
Residence: 65 Hillsdale Road, Arlington, MA 02476
Citizenship: US

(4) Full Name of Inventor: Jasbir Seehra
Residence: 139 Shade Street, Lexington, MA 02421
Citizenship: UK

hereby sell, assign, and transfer to ASSIGNEE:

Genetics Institute, Inc.
87 Cambridge Park Drive
Cambridge, MA 02140

and the successors, assigns, and legal representatives of the ASSIGNEE, the entire right, title, and interest for the United States and its territorial possessions, and in all foreign countries, including all rights to claim priority, in and to the invention entitled:

CRYSTAL STRUCTURES OF P- SELECTIN, P- AND E-SELECTIN
COMPLEXES, AND USES THEREOF

that was invented by ASSIGNORS, and which is found in U.S. application Serial No. 09/859,722, filed on May 17, 2001, and any legal equivalent thereof in a foreign country, including the right to claim priority, including any and all improvements disclosed therein, and in and to all Letters Patent to be obtained for said invention by the above application, or any continuation, division, renewal, or substitute thereof, and, as to Letters Patent, any reissue or re-examination thereof.

ASSIGNORS hereby covenant that no assignment, sale, agreement, or encumbrance has been, or will be, made or entered into which would conflict with this Assignment.

ASSIGNORS authorize ASSIGNEE to make applications for, and to receive, Letters Patent for said invention in any of said countries, in ASSIGNEE's name, or in ASSIGNORS' names, at ASSIGNEE's election.

ASSIGNORS covenant and agree to execute or procure any further necessary assurance of the title to said invention, and any Letters Patent which may issue therefor, and to, at any time, upon the request and at the expense of ASSIGNEE, deliver any testimony in any interference, litigation, or proceeding related thereto, and to execute all papers that may be necessary or desirable to perfect the title to said invention, or any Letters Patent which may be granted therefor in ASSIGNEE, its successors, assigns, or other legal representatives, and to, at any time, upon the request and at the expense of ASSIGNEE, execute any continuation, continuation-in-part, divisional, renewal, or substitute thereof, and, as to Letters Patent, and reissue or re-examination thereof, or any other additional applications for Letters Patent for said invention or any part thereof, all of which applications and any Letters Patent issuing

thereon are hereby assigned to ASSIGNEE, will make all rightful oaths or declarations, and do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns, or other legal representatives.

ASSIGNORS authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States for said invention, resulting from any of the aforesaid applications, to said Genetics Institute, Inc. as their ASSIGNEE.

WITNESS our hands and seals this 31 day of August, 2001.

William Stuart Somers

Jin Tang
Jin Tang

Raymond Camphausen

Jasbir Seehra
Jasbir Seehra

ACKNOWLEDGMENT

State of Massachusetts }
County of Middlesex } ss:

On the ____ day of _____, 2001, William Stuart Somers personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Notary Public

State of Massachusetts }
County of Middlesex } ss: _____

On the 15th day of August, 2001, Jin Tang personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Sabiele M. Vogt
Notary Public

State of Massachusetts }
County of Middlesex } ss: }

On the ____ day of _____, 2001, Raymond Camphausen personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Notary Public

State of Massachusetts }
County of Middlesex } SS:

On the 31 day of August, 2001, Jasbir Seehra personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Notary Public

ARADHANA B. KUMAR
Notary Public
My Commission Expires
April 25, 2008